CHEMICO-BIOLOGICAL INTERACTIONS

SUBJECT INDEX

VOLUME 63 (1987)

Activity, inhibition, mitochondria, 171

Alkylating agents, quantitative structureactivity relationships, 2-furylethylenes, modeling of biological activity, lipophilicity, reactivity, 195

Anacrotine, pyrrolizidine alkaloid, hepatotoxicity, pneumotoxicity, metabolites, dehydroanacrotine, 91

Areca nut, reactive oxygen species, superoxide anion, 8-hydroxydeoxyguanosine, hydrogen peroxide, catechu, chemiluminescence, 157

Aroclor 1254, hydroxychlorobiphenyls, structure-related pK_a, hepatic mitochondria, uncoupling, respiratory inhibition, permeability changes, 139

Avidin-ferritin, DNA electron microscopy, strand leaks, benzo[a]pyrene, benzo[e]pyrene, bio-11-dUTP, 265

Benzo[a]pyrene, 7,12-dimethylbenz[a]-anthracene, cytochrome P-450, hydroxylase, ovary, estrus cycle, estrogen, 15

 lipid peroxidation, rat intestine, dietary lipids, 63

 DNA electron microscopy, strand breaks, benzo[e]pyrene, avidin-ferritin, bio-11dUTP, 265

Benzo[a]pyrene diol epoxide; DNa adduct formation, macromolecular binding, Chinese hamster ovary cells, epoxide hydrolysis, 279

Benzo[e]pyrene, DNA electron microscopy, strand breaks, benzo[a]pyrene, avidinferritin, bio-11-dUTP, 265

Benzo[j]fluoranthene, metabolism, nonalternant, polycyclic aromatic hydrocarbon, 227

Bio-11-dUTP, DNA electron microscopy, strand breaks, benzo[a]pyrene, benzo[e]pyrene, avidin-ferritin, 265

Bioactivation, peroxidase, hydroxamic acid, DNA binding, 249

Ca²⁺, cyanobacteria, toxin, peptide, isolated cells, membranes, 215

Carcinogenicity, tannic acid, microsomes, metabolites, 39

Catechu, reactive oxygen species, superoxide anion, 8-hydroxydeoxyguanosine, hydrogen peroxide, areca nut, chemiluminescence, 157

CCl₄, Na-23 NMR, lipid peroxidation, rat liver, vitamin E, cis, trans- and trans, trans-hydroperoxidienes, 207

Chemiluminescence, reactive oxygen species, superoxide anion, 8-hydroxydeoxyguanosine, hydrogen peroxide, areca nut, catechu, 157

Chinese hamster ovary cells, benzo[a]pyrene diol epoxide, DNA adduct formation, macromolecular binding, epoxide hydrolysis, 279

Cyanobacteria, toxin, peptide, isolated cells, Ca²⁺, membranes, 215

Cytochrome P-450, 7,12-dimethylbenz[a]-anthracene, benzo[a]pyrene, hydroxylase, ovary, estrus cycle, estrogen, 15

Cytotoxicity, lipid peroxide, linoleic acid hydroperoxide, unsaturated aliphatic aldehyde, human diploid fibroblast, 127

Dehydroanacrotine, anacrotine, pyrrolizidine alkaloid, hepatotoxicity, pneumotoxicity, metabolites, 91

Diamminedichloroplatinum(II) (cis), dinucleotide, intramolecular cross-link, intermolecular cross-link, monofunctional Ptadduct, 1

Dietary lipids, benzo[a]pyrene, lipid peroxidation, rat intestine, 63

Differential scanning calorimetry, protein kinase C, hexagonal phase, phosphatidylethanolamine, 239

7,12-Dimethylbenz[a]anthracene, benzo-[a]pyrene, cytochrome P-450, hydroxylase, ovary, estrus cycle, estrogen, 15

- Dinucleotide, cis-diamminedichleroplatinum(II), intramolecular cross-link, intermolecular cross-link, monofunctional Ptadduct, 1
- DNA adduct formation, benzo[a]pyrene diol epoxide, macromolecular binding, Chinese hamster ovary cells, epoxide hydrolysis, 279
- DNA binding, peroxidase, bioactivation, hydroxamic acid, 249
- DNA damage, 5-nitro-2-furylacrylic acid, filamentation, prophage induction, 185
- –, DNA repair mutant, hydrogen peroxide, poly(ADP-ribose)transferase, 29
- DNA electron microscopy, strand breaks, benzo[a]pyrene, benzo[e]pyrene, avidinferritin, bio-11-dUTP, 265
- DNA repair mutant, hydrogen peroxide, DNA damage, poly(ADP-ribose)transferase, 29
- Epoxide hydrolase, propylene oxides, phenylglycidyl ethers, glutathione transferase, 75
- Epoxide hydrolysis, benzo[a]pyrene diol epoxide, DNA adduct formation, macromolecular binding, Chinese hamster ovary cells, 279
- EPR, haem, porphyria, 105
- Estrogen, 7,12-dimethylbenz[a]anthracene, benzo[a]pyrene, cytochrome P-450, hydroxylase, ovary, estrus cycle, 15
- Estrus cycle, 7,12-dimethylbenz[a]anthracene, benzo[a]pyrene, cytochrome P-450, hydroxylase, ovary, estrogen, 15
- Extracellular K*-concentration, heart frequency, tissue redox state, K-strophantoside, insulin, 115
- Filamentation, 5-nitro-2-furylacrylic acid, DNA damage, prophage induction, 185
- 2-Furylethylenes, quantitative structureactivity relationships, alkylating agents, modeling of biological activity, lipophilicity, reactivity, 195
- Glutathione transferase, propylene oxides, phenylglycidyl ethers, epoxide hydrolase, 75
- Haem, EPR, porphyria, 105
- Heart frequency, tissue redox state, extracellular K*-concentration, K-strophantoside, insulin, 115

- Hepatic mitochondria, hydroxychlorobiphenyls, structure-related pK_a, Aroclor 1254, uncoupling, respiratory inhibition, permeability changes, 139
- Hepatotoxicity, anacrotine, pyrrolizidine alkaloid, pneumotoxicity, metabolites, dehydroanacrotine, 91
- Hexagonal phase, protein kinase C, phosphatidylethanolamine, differential scanning calorimetry, 239
- HPLC-electrochemical detection, superoxide anion, 1-naphthol, phenol, metabolism, 1,4naphthoquinone, leukocytes (human), 47
- Human diploid fibroblast, lipid peroxide, linoleic acid hydroperoxide, unsaturated aliphatic aldehyde, cytotoxicity, 127
- Hydrogen peroxide, DNA repair mutant, DNA damage, poly(ADP-ribose)transferase, 29
- reactive oxygen species, superoxide anion, 8-hydroxydeoxyguanosine, areca nut, catechu, chemiluminescence, 157
- Hydroperoxidienes (cis, trans and trans, trans), Na-23 NMR, lipid peroxidation, CCl₄, rat liver, vitamin E, 207
- Hydroxamic acid, peroxidase, bioactivation, DNA binding, 249
- Hydroxychlorobiphenyls, structurerelated pK_a, Aroclor 1254, hepatic mitochondria, uncoupling, respiratory inhibition, permeability changes, 139
- 8-Hydroxydeoxyguanosine, reactive oxygen species, superoxide anion, hydrogen peroxide, areca nut, catechu, chemiluminescence, 157
- Hydroxylase, 7,12-dimethylbenz[a]anthracene, benzo[a]pyrene, cytochrome P-450, ovary, estrus cycle, estrogen, 15
- Inhibition, mitochondria, activity, 171
- Insulin, heart frequency, tissue redox state, extracellular K*-concentration, K-strophantoside, 115
- Intermolecular cross-link, cisdiamminedichloroplatinum(II), dinucleotide, intramolecular cross-link, monofunctional Ptadduct, 1
- Intramolecular cross-link, cis-diamminedichloroplatinum(II), dinucleotide, intermolecular cross-link, monofunctional Ptadduct, 1
- Isolated cells, cyanobacteria, toxin, peptide, Ca²⁺, membranes, 215

- K-strophantoside, heart frequency, tissue redox state, extracellular K*-concentration, insulin, 115
- Leukocytes (human), superoxide anion, 1naphthol, phenol, metabolism, HPLCelectrochemical detection, 1,4-naphthoquinone, 47
- Linoleic acid hydroperoxide, lipid peroxide, unsaturated aliphatic aldehyde, cytotoxicity, human diploid fibroblast, 127
- Lipid peroxidation, benzo[a]pyrene, rat intestine, dietary lipids, 63
- Na-23 NMR, CCl₄, rat liver, vitamin E, cis, trans- and trans, trans-hydroperoxidienes, 207
- Lipid peroxide, linoleic acid hydroperoxide, unsaturated aliphatic aldehyde, cytotoxicity, human diploid fibroblast, 127
- Lipophilicity, quantitative structure-activity relationships, alkylating agents, 2-furylethylenes, modeling of biological activity, reactivity, 195
- Membranes, cyanobacteria, toxin, peptide, isolated cells, Ca^{a*}, 215
- Metabolism, benzo[j]fluoranthene, non-alternant, polycyclic aromatic hydrocarbon, 227
- superoxide anion, 1-naphthol, phenol, HPLC-electrochemical detection, 1,4-naphthoquinone, leukocytes (human), 47
- Metabolites, anacrotine, pyrrolizidine alkaloid, hepatotoxicity, pneumotoxicity, dehydroanacrotine, 91
- -, tannic acid, carcinogenicity, microsomes, 39
- Microsomes, tannic acid, carcinogenicity, metabolites, 39
- Mitochondria, inhibition, activity, 171
- Modeling of biological activity, quantitative structure-activity relationships, alkylating agents, 2-furylethylenes, lipophilicity, reactivity, 195
- Monofunctional Pt-adduct, cis-diamminedichloroplatinum(II), dinucleotide, intramolecular cross-link, intermolecular crosslink, 1
- Na-23 NMR, lipid peroxidation, CCl₄, rat liver, vitamin E, cis, trans- and trans, trans-hydroperoxidienes, 207
- 1-Naphthol, superoxide anion, phenol, metabolism, HPLC-electrochemical detection, 1,4-naphthoquinone, leukocytes (human), 47

- 1,4-Naphthoquinone, superoxide anion, 1naphthol, phenol, metabolism, HPLCelectrochemical detection, leukocytes (human), 47
- 5-Nitro-2-furylacrylic acid, DNA damage, filamentation, prophage induction, 185
- Non-alternant, benzo[j]fluoranthene, metabolism, polycyclic aromatic hydrocarbon, 227
- Ovary, 7,12-dimethylbenz[a]anthracene, benzo[a]pyrene, cytochrome P-450, hydroxylase, estrus cycle, estrogen, 15
- Polycyclic aromatic hydrocarbon, benzo-[j]fluoranthene, metabolism, nonalternant, 227
- Peptide, cyanobacteria, toxin, isolated cells, Ca²⁺, membranes, 215
- Permeability changes, hydroxychlorobiphenyls, structure-related pK_a, Aroclor 1254, hepatic mitochondria, uncoupling, respiratory inhibition, 139
- Peroxidase, bioactivation, hydroxamic acid, DNA binding, 249
- Phenol, superoxide anion, 1-naphthol, metabolism, HPLC-electrochemical detection, 1,4-naphthoquinone, leukocytes (human), 47
- Phenylglycidyl ethers, propylene oxides, epoxide hydrolase, glutathione transferase, 75
- Phosphatidylethanolamine, protein kinase C, hexagonal phase, differential scanning calorimetry, 239
- Pneumotoxicity, anacrotine, pyrrolizidine alkaloid, hepatotoxicity, metabolites, dehydroanacrotine, 91
- Poly(ADP-ribose)transferase, DNA repair mutant, hydrogen peroxide, DNA damage, 29
- Porphyria, EPR, haem, 105
- Prophage induction, 5-nitro-2-furylacrylic acid, DNA damage, filamentation, 185
- Propylene oxides, phenylglycidyl ethers, epoxide hydrolase, glutathione transferase, 75
- Protein kinase C, hexagonal phase, phosphatidylethanolamine, differential scanning calorimetry, 239
- Pyrrolizidine alkaloid, anacrotine, hepatotoxicity, pneumotoxicity, metabolites, dehydroanacrotine, 91

- Quantitative structure-activity relationships, alkylating agents, 2-furylethylenes, modeling of biological activity, lipophilicity, reactivity, 195
- Rat intestine, benzo[a]pyrene, lipid peroxidation, dietary lipids, 63
- Rat liver, Na-23 NMR, lipid peroxidation, CCl₄, vitamin E, cis, trans- and trans, trans-hydroperoxidienes, 207
- Reactive oxygen species, superoxide anion, 8-hydroxydeoxyguanosine, hydrogen peroxide, areca nut, catechu, chemiluminescence, 157
- Reactivity, quantitative structure-activity relationship, alkylating agents, 2-furylethylenes, modeling of biological activity, lipophilicity, 195
- Respiratory inhibition, hydroxychlorobiphenyls, structure-related pK_a, Aroclor 1254, hepatic mitochondria, uncoupling, permeability changes, 139
- Strand leaks, DNA electron microscopy, benzo[a]pyrene, benzo[e]pyrene avidin-ferritin, bio-11-dUTP, 265
- Structure-related pK_a, hydroxychlorobiphenyls, Aroclor 1254, hepatic mitochondria, uncoupling, respiratory inhibition, permeability changes, 139

- Superoxide anion, 1-naphthol, phenol, metabolism, HPLC-electrochemical detection, 1,4-naphthoquinone, leukocytes (human), 47
- reactive oxygen species, 8-hydroxydeoxyguanosine, hydrogen peroxide, areca nut, catechu, chemiluminescence, 157
- Tannic acid, carcinogenicity, microsomes, metabolites, 39
- Tissue redox state, heart frequency, extracellular K*-concentration, K-strophantoside, insulin, 115
- Toxin, cyanobacteria, peptide, isolated cells, Ca²⁺, membranes, 215
- Uncoupling, hydroxychlorobiphenyls, structure-related pK_a, Aroclor 1254, hepatic mitochondria, respiratory inhibition, permeability changes, 139
- Unsaturated aliphatic aldehyde, lipid peroxide, linoleic acid hydroperoxide, cytotoxicity, human diploid fibroblasts, 127
- Vitamin E, Na-23 NMR, lipid peroxidation, CCl₄, rat liver, cis, trans- and trans, trans- hydroperoxidienes, 207

CHEMICO-BIOLOGICAL INTERACTIONS

AUTHOR INDEX

VOLUME 63 (1987)

279 195 195 185 207	Hirata, M. Honda, S. Hooberman, B.H. Humphrey, R.M.	
195 185 207	Hooberman, B.H.	127 75
185 207		75
185 207	Humphrey, R.M.	
207		279
	Ilavský, D.	198
157	•	
185	Junghlut, HD	265
15	oungotus, 11. D.	200
75	Vanaka T	127
139		195
157	Kovac, J.	190
29	Laatikainen, R.	1
	Lai, A.	207
	LaVoie, E.J.	227
	Luhtala, J.	105
	MacLeod, M.C.	279
	Matsuo, M.	127
201	Mattison, D.R.	15
90	Mattocks, A.R.	91
	Meloni, C.	207
	Meyn, R.E.	29
	Murray, D.	29
	Nair, U.J.	157
31		157
477		127
	•	
	Pal A K	185
239		279
015		115
	Tuppi, 11.	110
	Dies IF	227
		47
157		215 15
227		
63		105
39		75 47
105		195
	■ 1.50	265
	•	195
	157 185 15 75 139 157 29 207 185 249 249 207 39 115 207 279 15 91 47 139 239 215 157 1 47 157	157 185 15 15 15 175 189 Kaneko, T. Kovác, J. 29 Laatikainen, R. Lai, A. LaVoie, E.J. Luhtala, J. MacLeod, M.C. Matsuo, M. Mattison, D.R. Mattocks, A.R. Meloni, C. Meyn, R.E. Meyn, R.E. Murray, D. 15 91 Nair, U.J. Nair, J. Nakano, SI. 139 239 Pal, A.K. Pevny, T. Puppi, A. 157 Rice, J.E. 47 Ross, D. 157 Runnegar, M.T.C. Rydström, J. 227 63 Sievers, G. 39 Sinsheimer, J.E. Smith, M.T. 105 Stibrányi, L. 171 Stüber, J.J.

Tenhunen, R.	105	Watanabe, M.	171
Tonda, K.	171	Wills, E.D.	63
		Wittmann, I.	115
Van den Eeckhout, E.	75		
Végh, D.	195	Zahn, R.K.	265